

### **ABSTRACT**

A Radio Frequency (RF) power amplifier includes a transconductance stage, an AC coupling element, and a cascode stage. The transconductance stage is adapted to receive an input RF voltage signal and to produce an output RF current signal. The  
5 cascode stage is adapted to receive an input RF current signal and to produce an output RF voltage signal. The AC coupling element couples between the transconductance stage and the cascode stage and is operable to AC couple the output RF current signal of the transconductance stage as the input RF current signal of the cascode stage.